Withdrawal notice: SWJPAM does not allow articles it publishes to appear on archives. An updated version of this article along with new results, can be found at the author's web page: www.math.psu.edu/horwitz/papers.html-see "Finding Ellipses and Hyperbolas Tangent to two, three, or four given Lines", Southwest Journal of Pure and Applied Mathematics 1(2002), 6-32.